IFW

PTO/SB/21 (08-03)

OIPE AUG 27 2004 PATENT & TRADEMARK OFFICE

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/686,551
Filing Date	October 14, 2003
First Named Inventor	Lokovic, Thomas David
Art Unit	2671
Examiner Name	Unassigned
Total Number of Pages in This Submission: 6	Attorney Docket Number: 021751-001710US

ENCLOSURES ***(Check all that apply)***

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Supplemental Information Disclosure Statement (2 pgs) w/attached PTO/SB/08B (2 pgs), citing references 1-16.
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s)
- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) *(please identify below)*:
  1. Return Postcard; and
  2. A copy of each of 16 non patent references.

Remarks

The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

*** Note: References not included in the total number of pages above**

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP Daniel Mao Reg. No. 51,995
Signature	Daniel Mao
Date	8/20/04

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	TIFFANY WU		
Signature		Date	8/25/04

60287802 v1

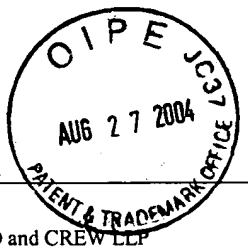
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On 08/25/04

TOWNSEND and TOWNSEND and CREW LLP

By: Tiffany Wu



PATENT
Attorney Docket No.: 021751-001710US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Examiner: Unassigned
LOKOVIC et al.	Art Unit: 2671
Application No.: 10/686,551	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98
Filed: October 14, 2003	
For: METHOD AND APPARATUS FOR RENDERING SHADOWS	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

BEST AVAILABLE COPY

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Daniel Mao
Reg. No. 51,995

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 650-326-2400
Fax: 650-326-2422
DM:rms
60278567 v1

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	10/686,551
Filing Date	October 14, 2003
First Named Inventor	Lokovic, Thomas David
Art Unit	2671
Examiner Name	Unassigned
Attorney Docket Number	021751-001710US

IPE
AUG 27 2004
PATENT & TRADEMARK OFFICE
TC37

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	AGRAWALA et al., Efficient image-based methods for rendering soft shadows, Computer Graphics, *(SIGGRAPH 2000 Proceedings)* pages 375-384.	
	2	CHANG et al., LDI tree: a hierarchical representation for image-based rendering, Computer Graphics *(SIGGRAPH 99 Proceedings)* pages 291-298.	
	3	HECKBERT, Survey of texture mapping. *IEEE Computer Graphics and Applications*, 6(11):56–67, November 1986.	
	4	KAJIYA et al., Rendering fur with three dimensional textures. In *Computer Graphics (SIGGRAPH '89 Proceedings)*, volume 23, pages 271–280, July 1989	
	5	KAJIYA et al., Ray tracing volume densities. In *Computer Graphics (SIGGRAPH '84 Proceedings)*, volume 18, pages 165–174, July 1984.	
	6	KEATING et al., Shadow penumbras for complex objects by depth-dependent filtering of multi-layer depth images. In *Eurographics Rendering Workshop 1999*, pages 205–220, New York, June 1999. Springer-Verlag.	
	7	LEVOY, *Display of Surfaces from Volume Data*.Ph.D. thesis, University of North Carolina at Chapel Hill, 1989.	
	8	LEVOY et al., Light Field Rendering, Computer Graphics *(SIGGRAPH '96 Proceedings)* pages 31-42	
	9	MAX, Hierarchical rendering of trees from precomputed multi-layer Z-buffers. In *Eurographics Rendering Workshop 1996*, pages 165–174, New York, June 1996	
	10	MITCHELL, Consequences of stratified sampling in graphics. In *SIGGRAPH 96 Proceedings*, pages 277–280. Addison Wesley, August 1996.	
	11	REEVES et al., Rendering antialiased shadows with depth maps. In *Computer Graphics (SIGGRAPH '87 Proceedings)*, volume 21, pages 283–291, July 1987.	
	12	SHADE et al., Layered depth images. In *SIGGRAPH 98 Proceedings*, pages 231–242. Addison Wesley, July 1998.	
	13	SOLER et al, Fast calculation of soft shadow textures using convolution, Computer Graphics *(SIGGRAPH 98 Proceedings)* pages 321-322.	
	14	WILLIAMS, Casting curved shadows on curved surfaces. *Computer Graphics (SIGGRAPH '78 Proceedings)*, 12(3):270–274, August 1978.	
	15	WILLIAMS, Pyramidal parametrics. *Computer Graphics (SIGGRAPH '83 Proceedings)*, 17(3):1–11, July 1983	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				*Application Number*	10/686,551
				Filing Date	October 14, 2003
				First Named Inventor	Lokovic, Thomas David
				Art Unit	2671
(use as many sheets as necessary)				*Examiner Name*	Unassigned
Sheet	1	of	1	*Attorney Docket Number*	021751-001710US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	16	WOO et al., A survey of shadow algorithms. *IEEE Computer Graphics and Applications*, 10(6):13–32, November 1990.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.